

A method and system for detecting and measuring different visually important errors in a reproduced image, as compared to the original image. The visually important errors include the blocking, blurring and ringing artifacts. Using directional filters to process the original and reproduced images into edge images. From the edge images, compute the errors related to true edges and false edges. From the original and reproduced images, compute luminance/color variations in smooth areas. The true edges are edges that are present in the original image. The false edges are edges that are present in the reproduced image but not in the original image.